

NEW ABSTRACT:

Please replace the original abstract with the following new abstract:

Abstract of the Disclosure

A high-pressure pump has at least one pump element, with a pump piston which is guided displaceably in a cylinder bore of a housing part of the high-pressure pump and is driven in a reciprocating motion and defines a pump work chamber in the cylinder bore, into which chamber fuel is aspirated via an inlet valve in the intake stroke of the pump piston. The inlet valve has a pistonlike valve member, which with a sealing face cooperates with a valve seat for controlling the communication of the pump work chamber with the fuel inlet. The valve member is disposed with a head, on which the sealing face is embodied, in the pump work chamber and protrudes out of the pump work chamber with a shaft adjoining the head. The valve seat is formed in the housing part at a transition from the cylinder bore to a bore of smaller diameter adjoining the cylinder bore. With its shaft, the valve member protrudes through the bore into a region of the housing part remote from the pump work chamber, in which region a closing spring is disposed that engages the shaft of the valve member.